

LEVEL UP

YOUR SECURITY MINDSET

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ABOUT ME

Head of Cybersecurity Research

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Member



Thank
you!

SORRY NO

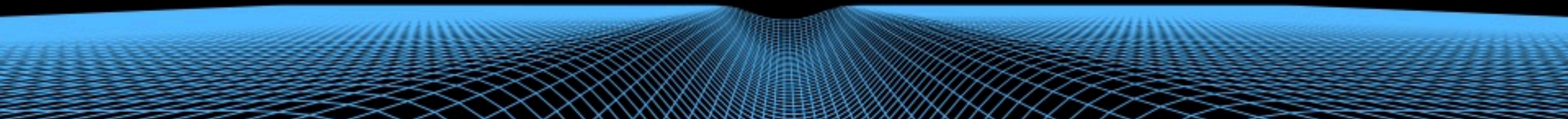
Demos

Explosions

0days

Fireworks

No Fires



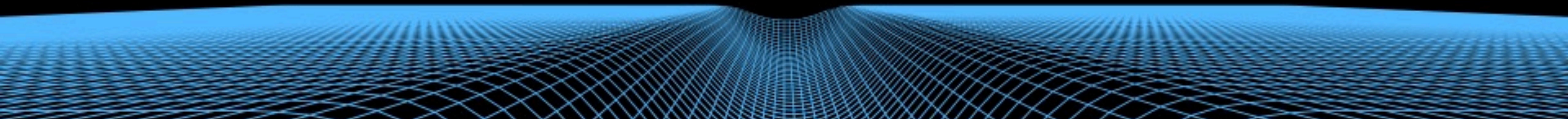
CHALLENGES

- Perspective
- Social
- Scale
- Velocity
- Talent



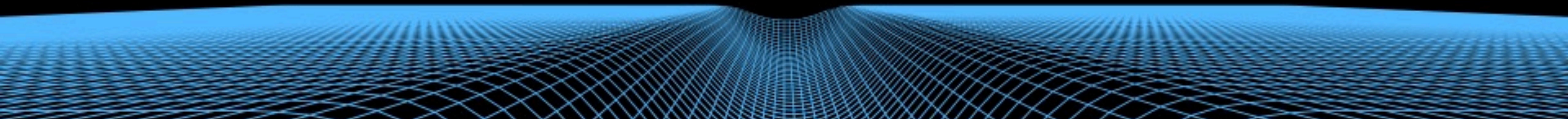
WHERE ARE WE AT

- Buffet style view of security
- Security is an afterthought
- We are left out of conversations
- We focus on unrealistic risks and risk elimination
- Rigid and inflexible

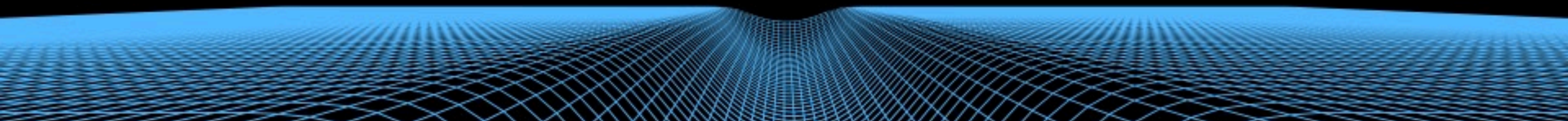


WHERE DO WE NEED TO BE

- Security engineered into products
- Security by default
- Collaborating with other business units
- Focused on real risks and risk reduction
- Agile and flexible



The problems won't be solved
by technical solutions alone

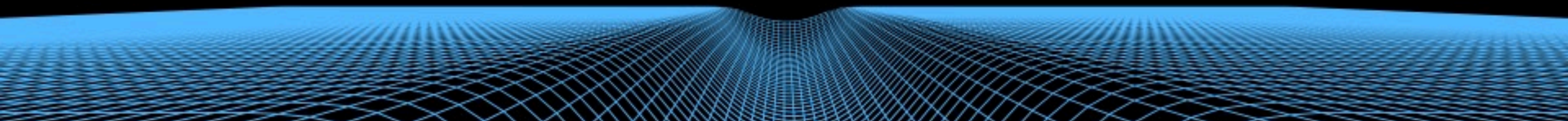


TOO MUCH IS AT STAKE

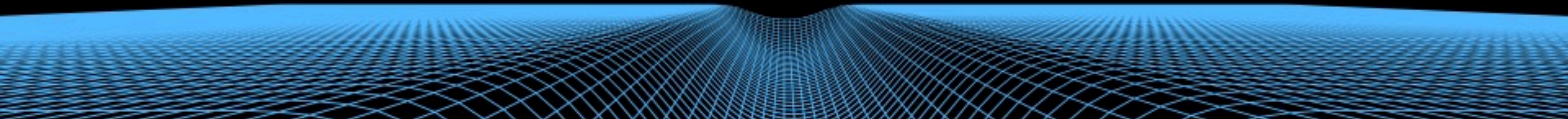
We need to be part of
the conversations and
solutions
of the future



No shortage of things
working against us



OUR JOBS WILL GET HARDER





Perspective

HACK THE PLANET BETTER?

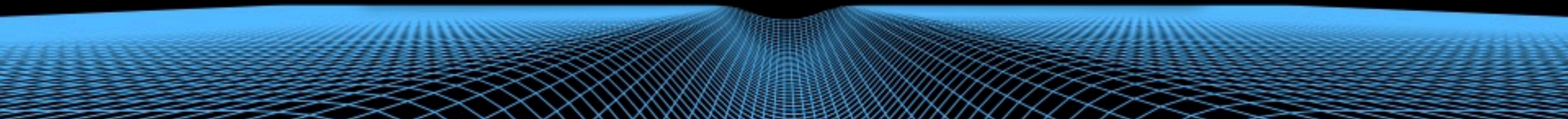


SECURITY PROFESSIONALS

- As security professionals, often:
 - Our recommendations are unrealistic
 - Our findings are complicated (as well as solutions)
 - We don't think about our end users
 - We are difficult to work with
- And when people don't understand us...



WORLD RUN BY SECURITY PEOPLE



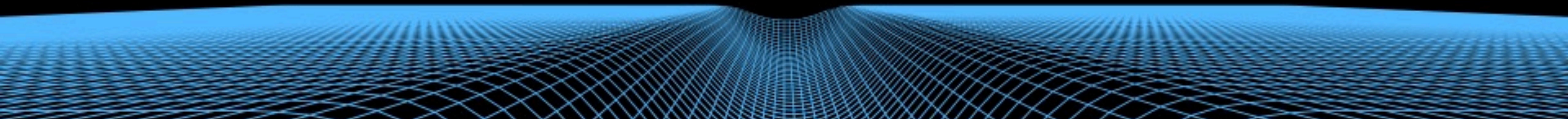
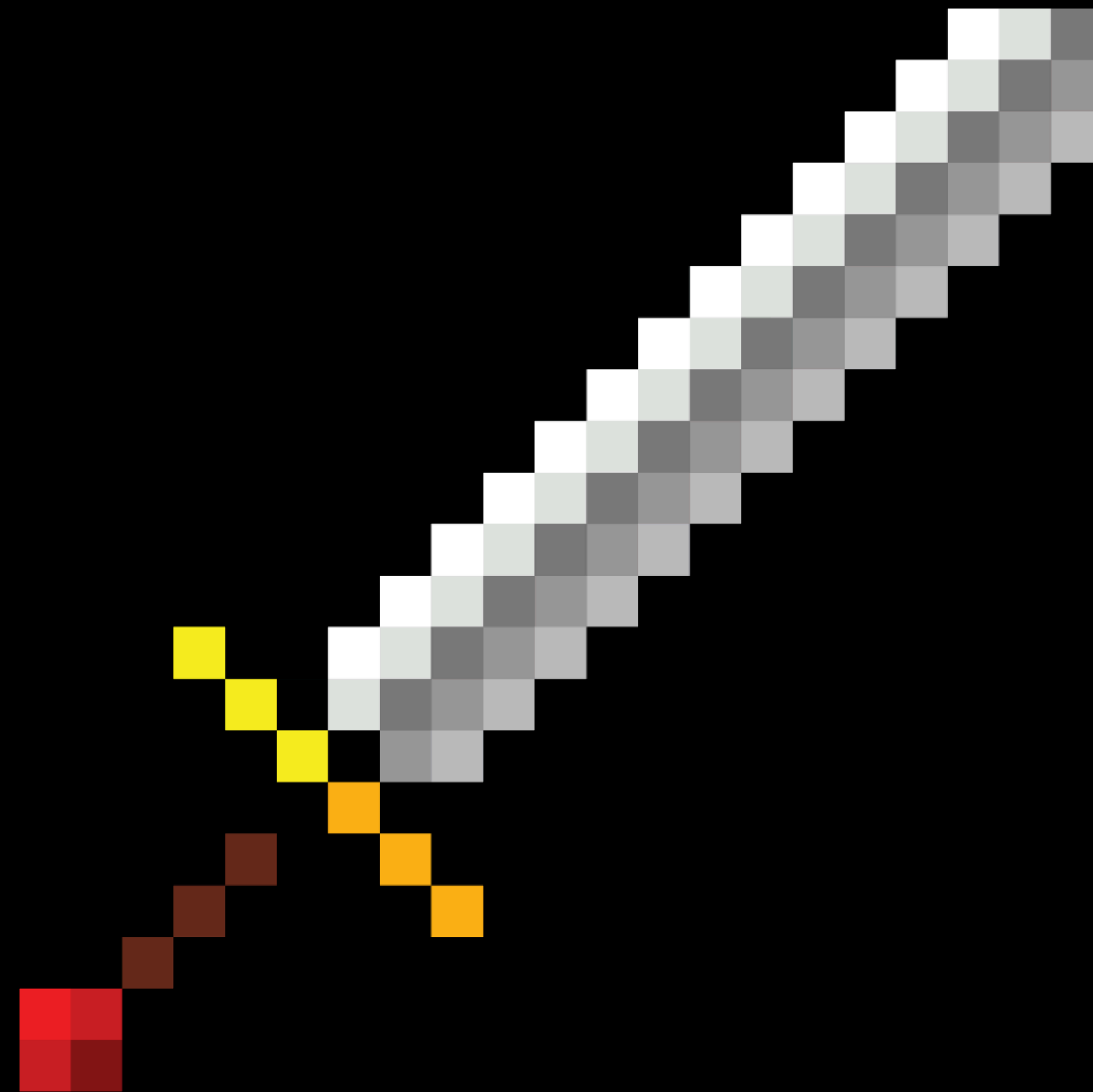


The Security Bubble

WHAT IS OUR MISSION?



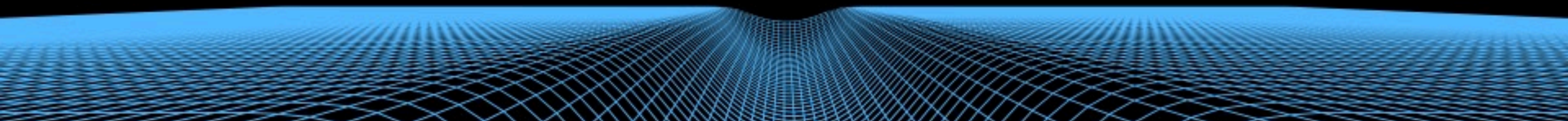
OFFENSE

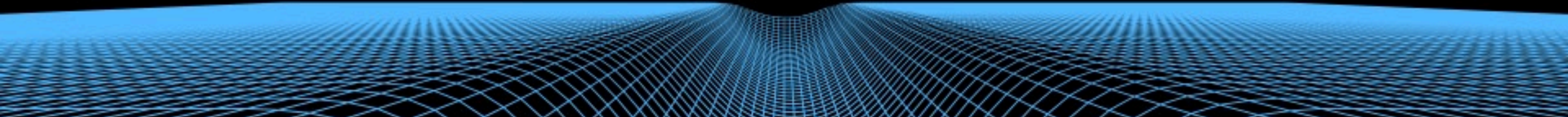


DEFENSE



We need to be okay
with imperfect solutions

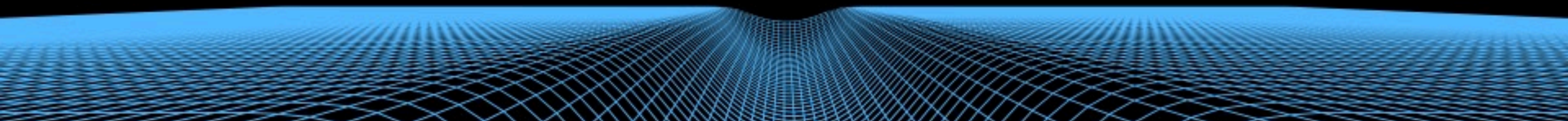


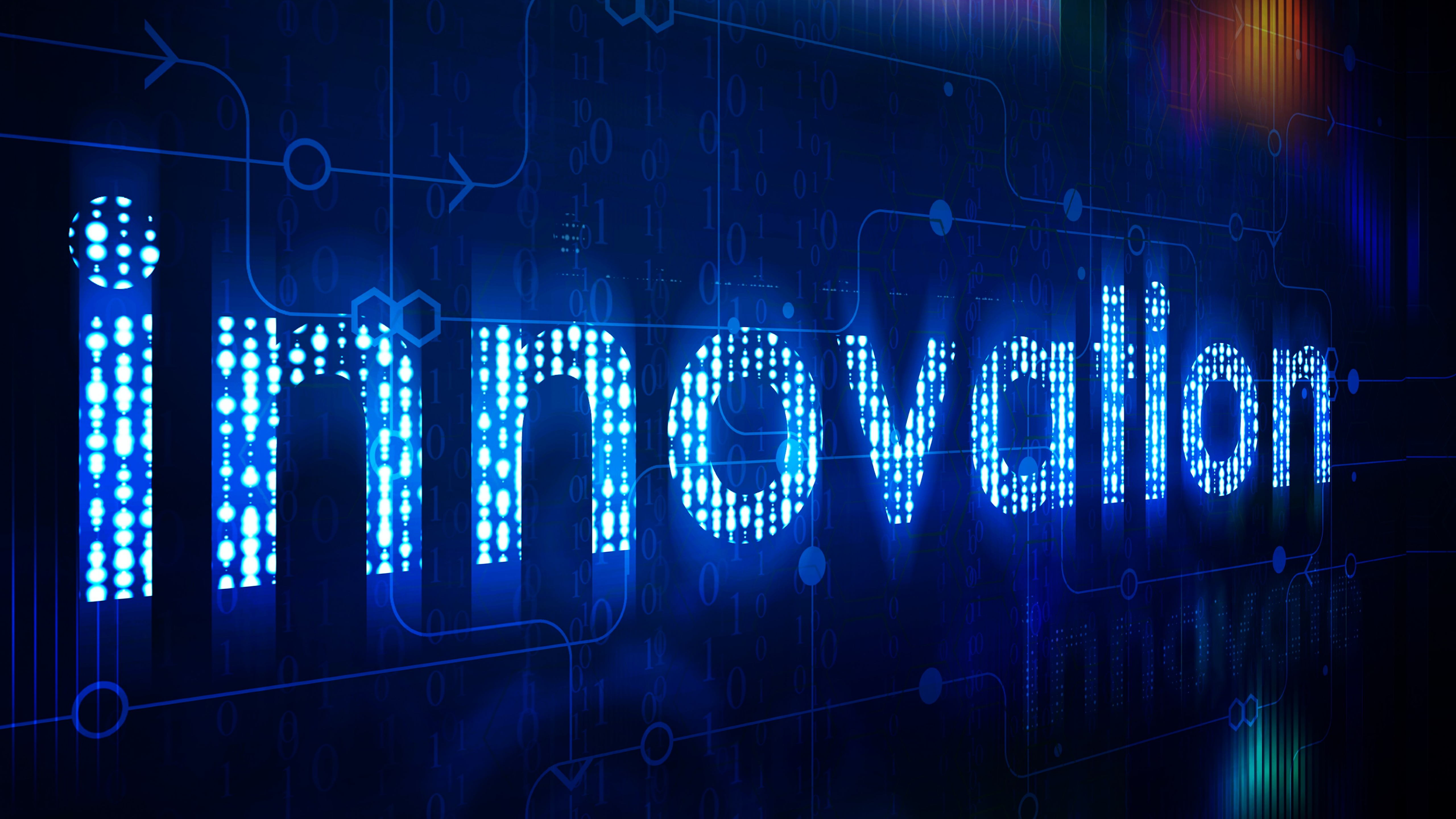


REAL RISK



Our relationship with
risk needs to change





CHANGE

THROUGHOUT THE YEARS

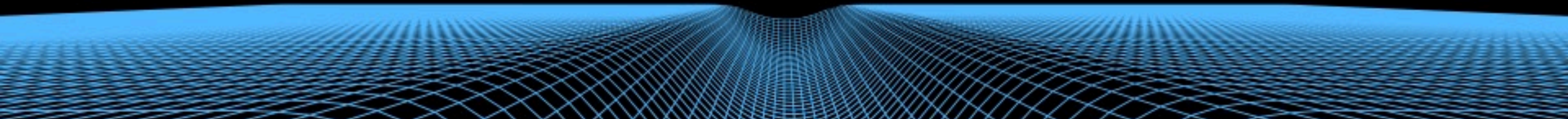


THAT WON'T WORK HERE



PERSPECTIVE SHIFT

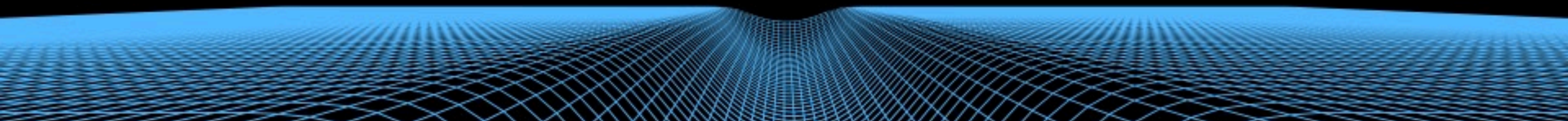
- Be a change agent
- Focus on risk reduction
- Increase empathy and understanding



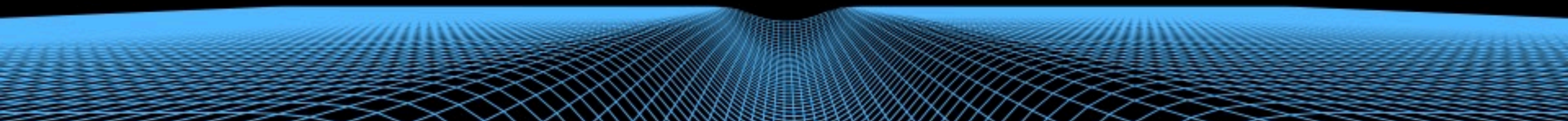


Social

The future of security is a
social and political challenge



SOCIAL SKILLS



SOFT SKILLS

- Aren't optional anymore



No!

ROADBLOCK



US

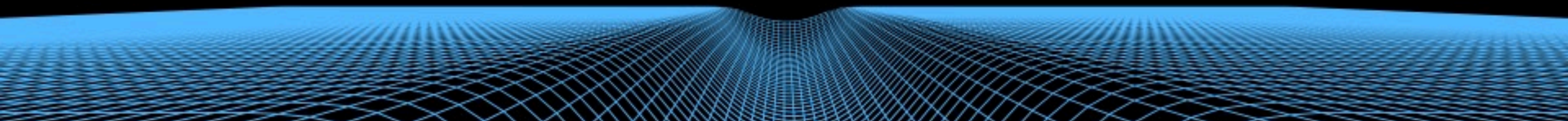
VS.

THEM

РЕВКАС



There's no patch for
human stupidity



SCARY CLOUDS?



There is no cloud
it's just someone else's computer

BLOCKCHAIN!



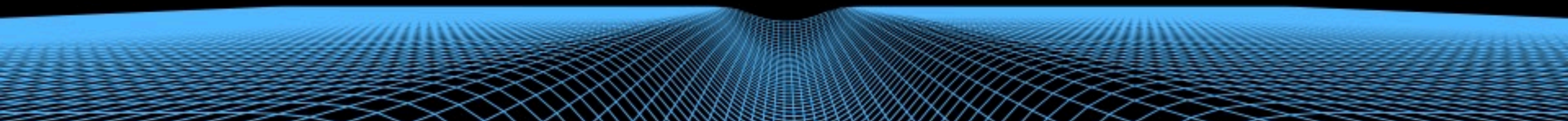
USER PROBLEMS



CAN'T BE EVERYWHERE

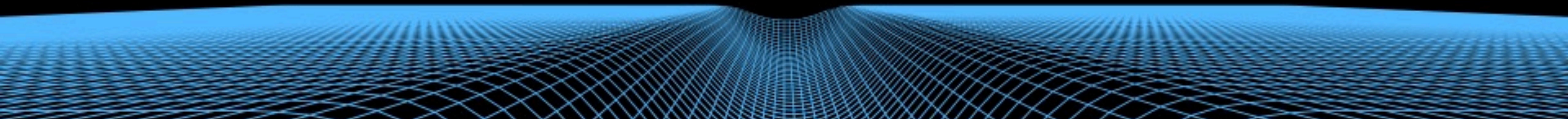


WORKING TOGETHER

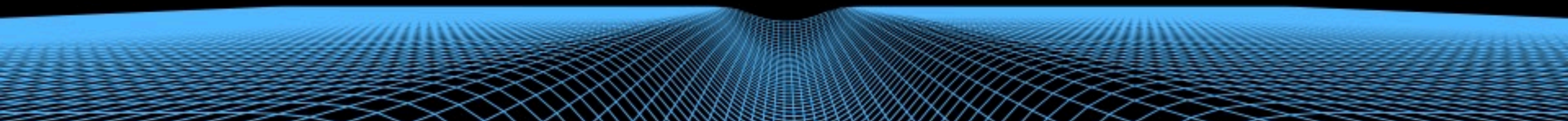


THE BIG SECRET

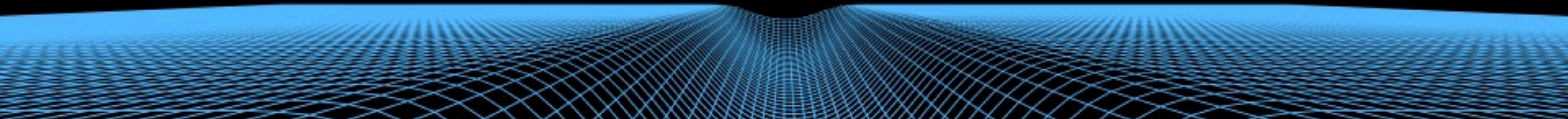
- People typically do what they want
- Find interesting ways around problems
- Security steps and procedures aren't a problem if you don't follow them



ALIGN GOALS



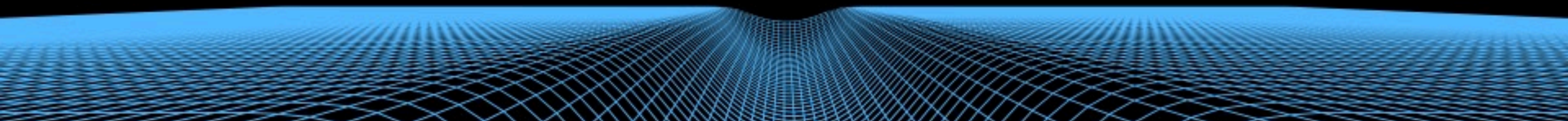
Information Sharing



SILOS



Enablement



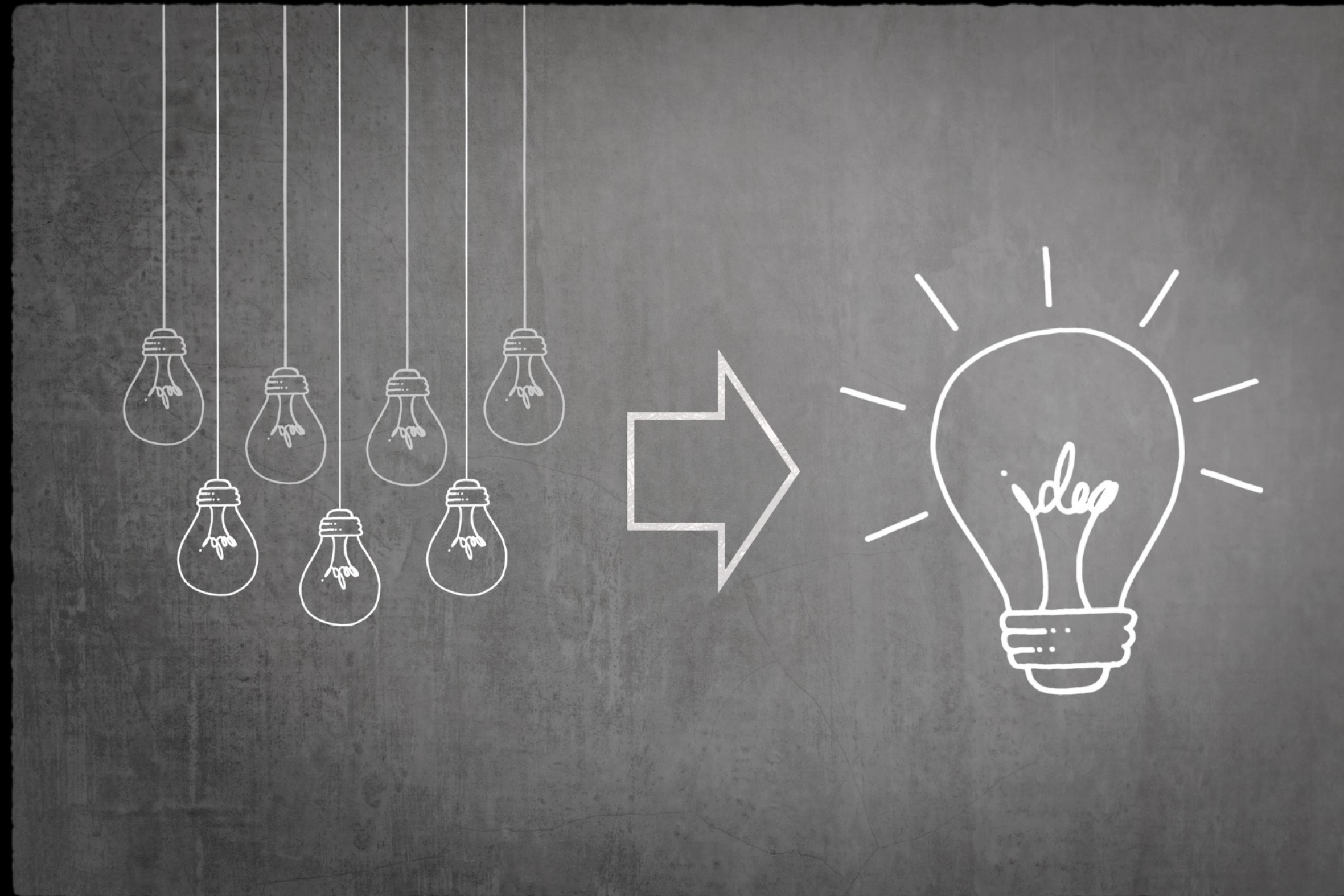
EMPOWER

ENGAGE

ENABLE

ENHANCE

BRAINSTORMING



PROTOTYPES





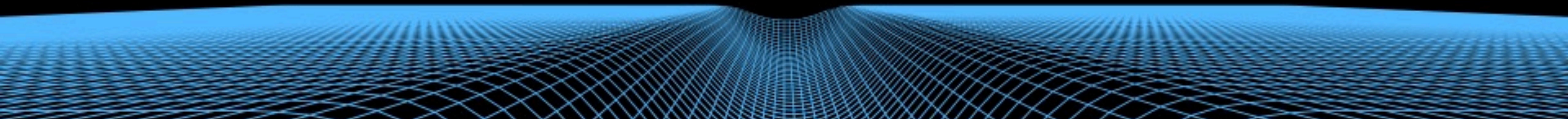
Scale

EVERYTHING IS SMART



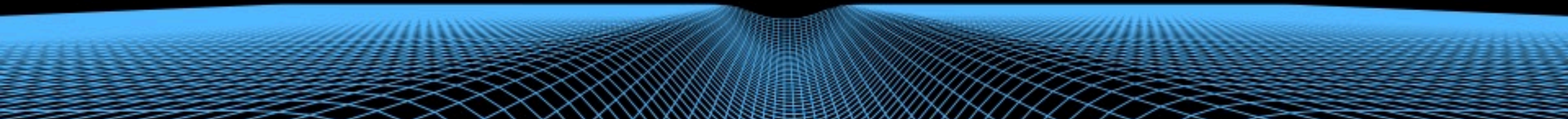
MODERN REALITY

- Apps, services, and products we use work against us
 - “Everyone wants you to have security, except from them.”
-Bruce Schneier
- Supply chain issues (hardware and software)
- Legacy and redundant systems
- Backdoors, Remote Access, and features we don't use, and the list goes on and on



GO AHEAD

Make my machine learn!



A person wearing a dark suit and a blue tie is pointing their right index finger towards the word 'INTEGRITY'. The background is a dark blue gradient with a faint, light blue network diagram consisting of interconnected circles and lines. The word 'INTEGRITY' is written in a large, bold, black, sans-serif font, centered horizontally and partially overlaid by the person's hand.

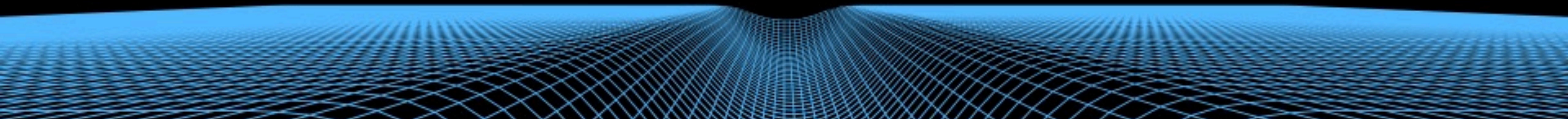
INTEGRITY

A man in a dark blue suit and red tie is shown from the chest up, holding a glowing blue sphere between his hands. The sphere is composed of many thin, intersecting blue lines, giving it a digital or network-like appearance. The word "COMMUNITY" is written in bold, white, sans-serif capital letters across the center of the sphere. The background is dark and out of focus, showing some faint, glowing blue lines that resemble a network or data flow.

COMMUNITY

FIXING PROBLEMS OF SCALE

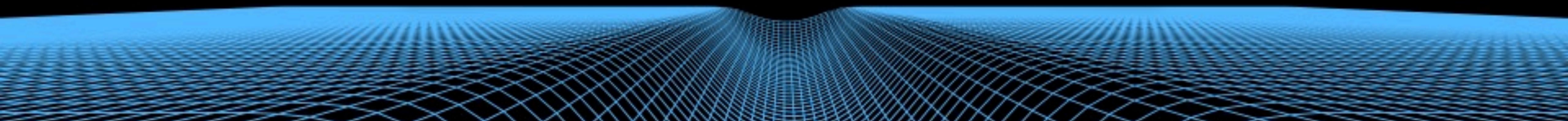
- Think beyond patching
- Push vendors on security controls and baselines
- Arm people with the right tools
- Reduce complexity in processes
- Look for options for self-service
- Leverage automation





Velocity

VELOCITY



SAY DEVSECOPS

ONE MORE TIME

imgflip.com

OBLIGATIONS

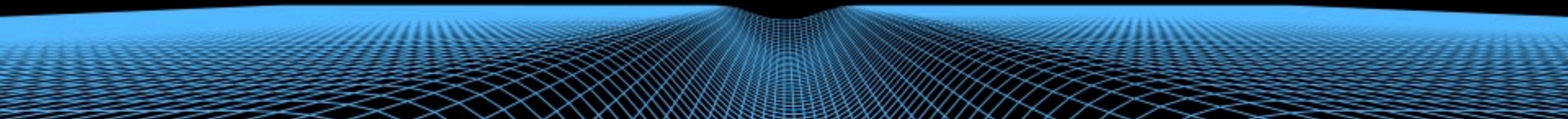
- We have an obligation to make our security solutions
 - Useable
 - Accessible
 - Simple

SIMPLIFICATION AND INCENTIVES

- Organizations incentivize adding features and complexity

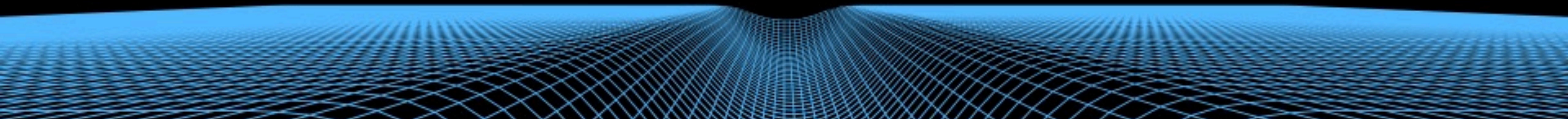
Nobody ever gets promoted for saying, “I deleted 800 lines of code.”

-Halvar Flake

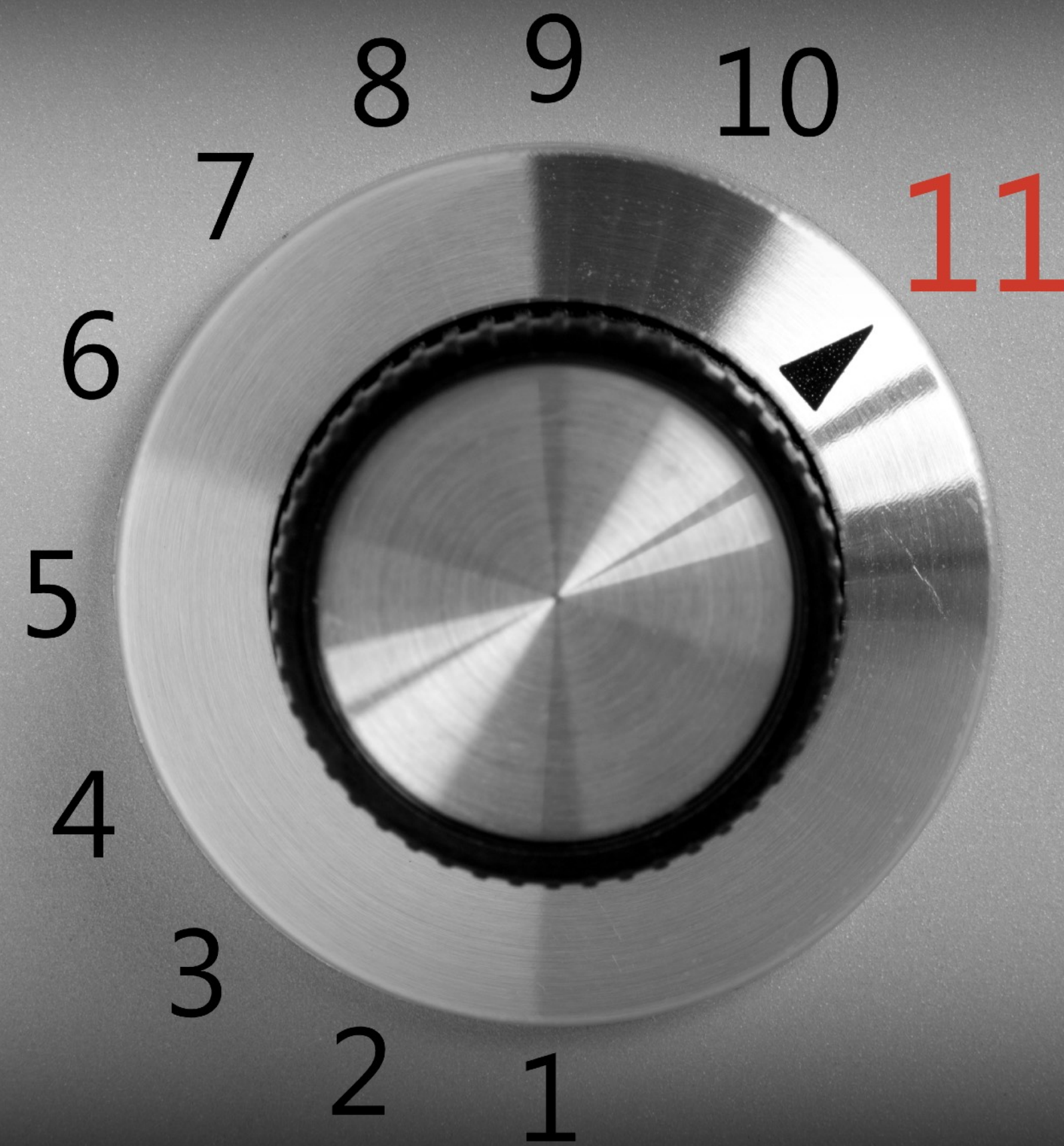


LEVERAGE VELOCITY

- Leverage increased responsibility
 - Code quality and security increase stability and reliability
- Utilize security champions
 - Activities like Threat Modeling
- Put solutions where the problems are and make sure the solution works properly



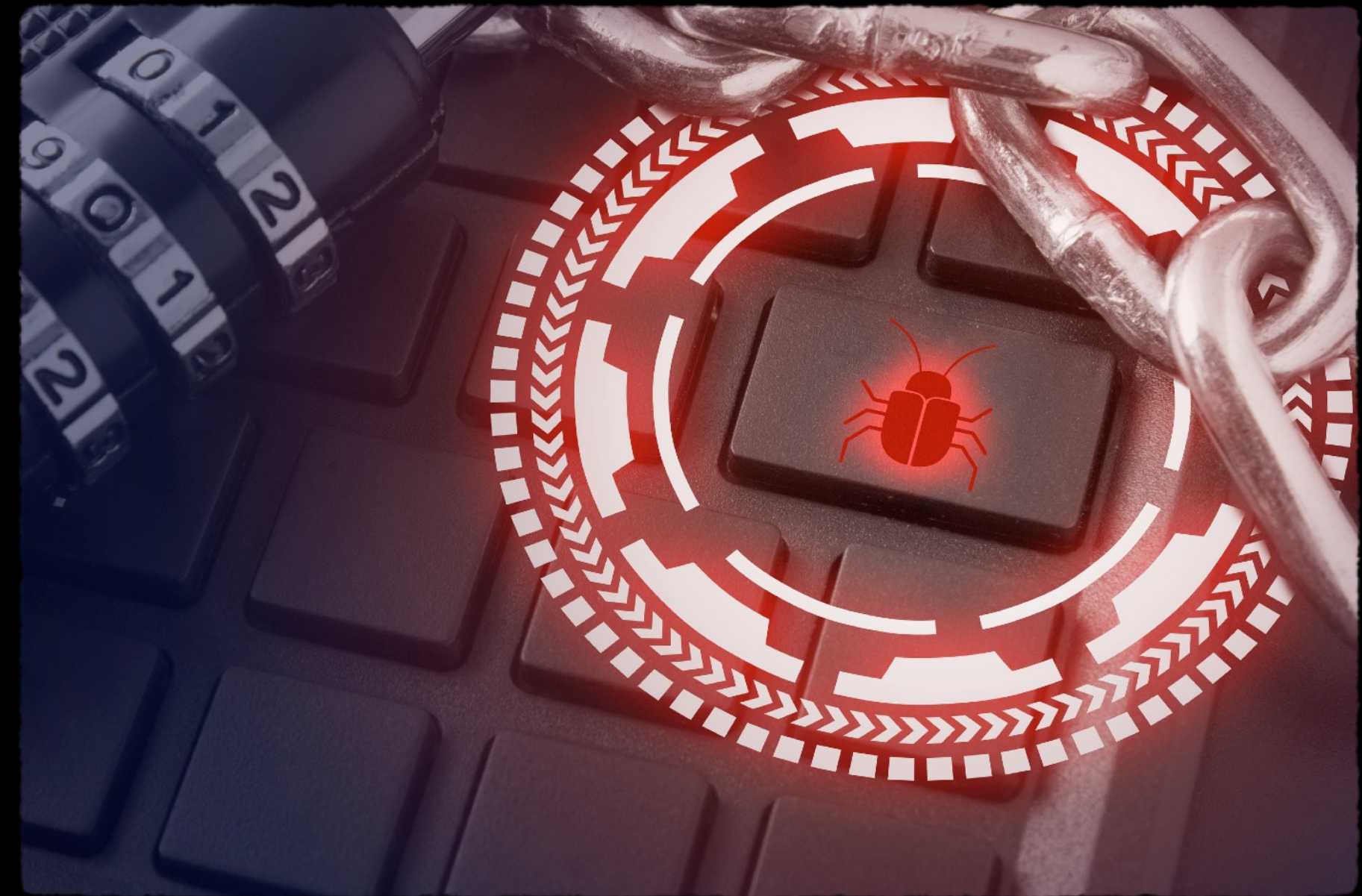
GOING TO 11



BUG BOUNTIES WON'T SAVE YOU

- Neither will AI or Blockchain

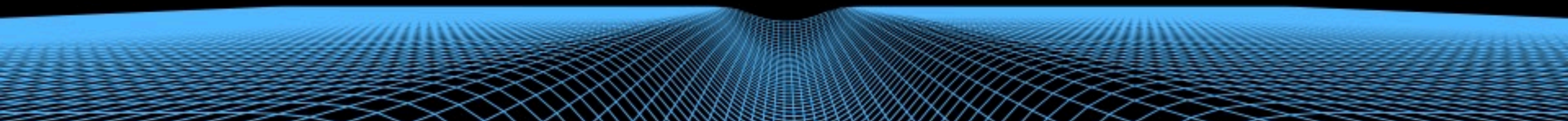
There is no security panacea





Talent

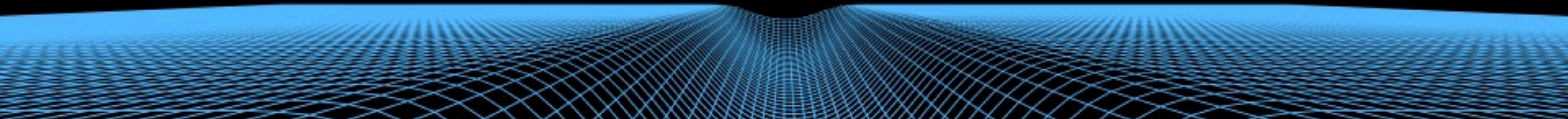
OUR PROBLEMS ARE GLOBAL



CYBERSECURITY SKILLS GAP



Diversity in Teams



INTERNSHIPS

Internship

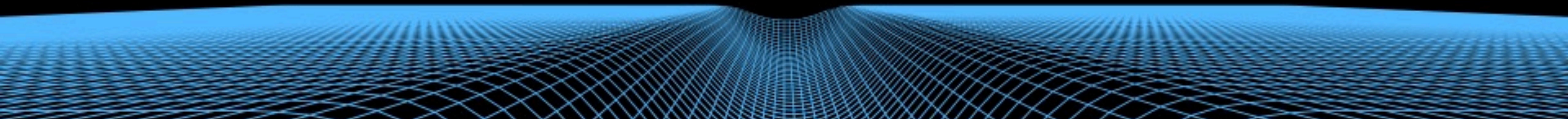
THE BUSINESS



INTERNET
SERIOUS BUSINESS.

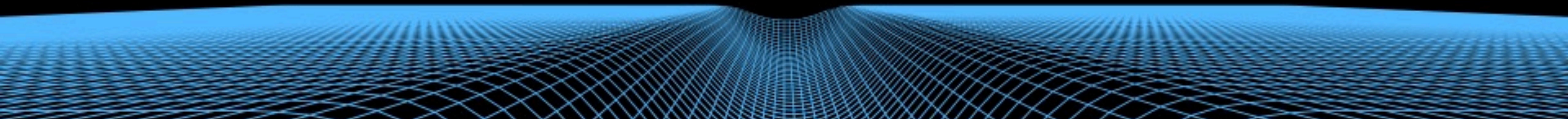
RETAIN AND DIVERSIFY

- Diversify your teams
- Business education (business champions)
- Create university partnerships
- Make your accomplishments known



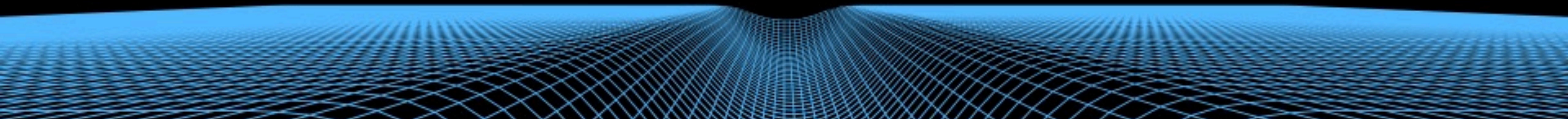
SUMMARY

- Solutions don't need to be perfect (they won't be)
- Turn PEBKAC into OEBKAC
- Increase communication and collaboration
- Diversify your security team



SUMMARY

- Align goals with other business units
- Focus on enablement and reduce friction
- More focus on integrity of systems



Any Questions?

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